

March 9, 2000 Project No. 97664V3

PROVIDING

- Geotechnical Engineering
- Construction Materials Testing
- Environmental Site Assessments
- Drilling Services

Ms. Brenda Pohlmann Nevada Division of Environmental Protection 555 E. Washington, Suite 4300 Las Vegas, NV 89101-1049

RE: Results of monthly surface water sampling of the Las Vegas Wash at the Northshore Road bridge.

Dear Ms. Pohlmann:

Per your request, Geotechnical & Environmental Services, Inc. (GES) obtained a surface water sample from the Las Vegas wash on February 28, 2000 near the Northshore Road Bridge. We sent this sample, under chain-of-custody protocol, to NEL Laboratories (NEL) for laboratory analysis of perchlorate. NEL's analysis revealed a perchlorate concentration of 720 micrograms per Liter (μ g/L). The NEL report is included with this letter, along with the Perchlorate Summary Table for 2000.

In addition to the sample we collected and submitted to NEL, a split sample was collected per the request of Mr. Kevin Mayer, with the US Environmental Protection Agency (USEPA). This split sample was collected at the same time and in the same manner as the sample submitted to NEL, and was sent, under chain-of-custody protocol, to the USEPA Laboratory in Richmond, California.

Our services were performed using that degree of care and skill ordinarily exercised under similar circumstances by reputable engineering firms in this or similar localities. No other warranty, either express or implied, is included

7560 W. Sahara Ave., Suite 101 Las Vegas, NV 89117 (702) 365-1001 • Fax (702) 341-7120 www.gesnevada.com

Nevada Division of Environmental Protection Project No. 97664V3 March 9, 2000 Page 2

or intended in this report. We appreciate this opportunity to provide our services. If you have any questions regarding these results, please feel free to call us at 365-1001.

Sincerely,

Geotechnical & Environmental Services, Inc.

Daniel C. Burns, C.E.M.* # 1692 (Expires 10/07/2001)

Project Manager

Gregory P. DeSart, P.E., C.É.M. # 1172 (Expires 12/22/2000)

President

* "I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances."

dlr

Enc:

1999 Perchlorate Summary Table

NEL Analytical Report

Dist:

1 faxed to addressee at 486-2863 1 original mailed to addressee

cc: fax to Jeff Gibson, American Pacific Corporation

cc: mail to Kevin Mayer, USEPA SFD 72, 75 Hawthorne Street, San Francisco, CA 94105

cc: to project file 97664V3

Las Vegas Wash at Northshore Road Bridge 2000 Summary of Perchlorate Concentrations

Date Sampled	Perchlorate (μg/L)		
1/27/00	569		
2/28/00	720		

NEL LABORATORIES

Reno · Las Vegas Phoenix . So. California

Las Vegas Division 4208 Arcata Way, Suite A • Las Vegas, NV 89030 (702) 657-1010 · Fax: (702) 657-1577 1-888-368-3282

CLIENT:

Geotechnical & Env. Serv.

7560 West Sahara Ave. #101

Las Vegas, NV 89117

ATTN:

Dan Burns

PROJECT NAME:

FPF

PROJECT NUMBER: 97664 V3

NEL ORDER ID: L0002262

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 2/28/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.

Stan Van Wagenen Laboratory Manager

CERTIFICATIONS:

Reno Las Vegas S. California AZ0520 AZ0518

AZ0605 2264

Idaho Montana Reno Las Vegas S. California Certified Certified

Certified

NV033

Nevada

Certified

NV052 CA084 10228

Arizona California

of Engineers

US Army Corps

1707

2002 Certified

Certified

L.A.C.S.D.

NEL LABORATORIES

CLIENT:

Geotechnical & Env. Serv.

PROJECT ID:

FPF

97664 V3 PROJECT #:

CLIENT ID:

North Shore Bridge

DATE SAMPLED: 2/28/00

NEL SAMPLE ID: L0002262-01

TEST:

Inorganic Non-Metals

MATRIX

Aqueous

REPORTING

PARAMETER

RESULT

LIMIT

<u>D. F.</u> 20 80.

METHOD

UNITS

ANALYZED

Perchlorate

720

CA DHSM - IC

μg/L

3/3/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LAS VEGAS

PAGE 04

NEL LABORATORIES

CLIENT: PROJECT ID: PROJECT #:

Geotechnical & Env. Serv.

FPF

97664 V3

CLIENT ID:

Method Blank

DATE SAMPLED: NA

NEL SAMPLE ID: 000303CLO4B-BLK

TEST:

Non-Metals

REPORTING

RESULT ND

LIMIT

D. F.

METHOD CA DHSM - IC UNITS µg/L

ANALYZED 3/3/00

D.F. - Dilution Factor

ND - Not Detected

PARAMETER

Perchlorate

This report shall not be reproduced except in full, without the written approval of the laboratory.

The liability of NEL Laborgories Inc. is limited strictly to the price of sample analysis for those samples received in good condition, including adequate sample volume and number of conflainers. Gustomer signature of this CoC constitutes a purchase order for NEL to perform work and constitutes acceptance of all NEL Standard Terms and Conditions. Signature also constitutes a purchase order for NEL to perform work and constitutes acceptance of all NEL Standard Terms and Conditions. Signature also constitutes acceptance of NEL Standard Terms and Conditions. Signature also constitutes acceptance of NEL Standard Terms and Conditions. Signature also constitutes acceptance of NEL Standard Terms and Conditions. Signature also constitutes acceptance of NEL Standard Terms and Conditions. Signature also constitutes acceptance of NEL Standard Terms and Conditions are received at the laboratory to the requested turnarcund time will be confirmed via Sample Confirmation transmitted to the fax number provided above.

LETTER OF TRANSMITTAL

GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

7560 West Sahara Avenue, Suite 101 Las Vegas, Nevada 89117 (702) 365-1001 (702) 341-7120 (FAX)

TO:	USEPA SFD 72 75 Hawthorne St				March 9, 20	March 9, 2000		
A TT8:	San Francisco CA 941	05	050 051	2 IFOT #				
ATTN:	N: Mr Kevin Mayer		GES PRO	DJECT #	97664 V	3		
WE ARE FORWARDING THE ITEMS LISTED BELOW VIA:								
	MESSENGER	PICK UP	x	U.S. MAIL	″NE	XT DAY"		
COPIES	DESCRIPTION							
1 Results of monthly surface water sampling of Wash at Northshore Rd Bridge								
THESE ITEMS ARE SENT FOR: REVIEW COMMENT APPROVAL USE								
		SIGN & RET	URN	OTHER:				
REMAR	KS:							
THIS M	ATERIAL IS SENT BY:	Daniel C. Burns,	C.E.M.					
PLEASE SIGN AND RETURN ONE COPY OF TRANSMITTAL.								
RECEIVED BY: TIME:		DATE:						
OTHER DISTRIBUTION:								